

I. C. S.

REFERENCE LIBRARY

A SERIES OF TEXTBOOKS PREPARED FOR THE STUDENTS OF THE
INTERNATIONAL CORRESPONDENCE SCHOOLS AND CONTAINING
IN PERMANENT FORM THE INSTRUCTION PAPERS,
EXAMINATION QUESTIONS, AND KEYS USED
IN THEIR VARIOUS COURSES



STAIR BUILDING
GEOMETRICAL DRAWING
ARCHITECTURAL DRAWING
ESTIMATING AND CALCULATING QUANTITIES
SPECIFICATIONS

SCRANTON
INTERNATIONAL TEXTBOOK COMPANY

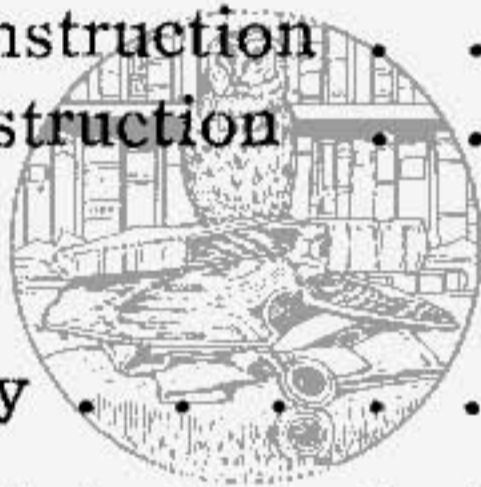
Copyright, 1901, 1904, by INTERNATIONAL TEXTBOOK COMPANY.

- Carpentry: Copyright, 1897, 1900, by THE COLLIERY ENGINEER COMPANY.
- Joinery: Copyright, 1898, 1900, by THE COLLIERY ENGINEER COMPANY.
- Stair Building: Copyright, 1899, by THE COLLIERY ENGINEER COMPANY.
- Geometrical Drawing: Copyright, 1893, 1894, 1896, 1897, 1898, 1899, 1901, by THE COLLIERY ENGINEER COMPANY.
- Architectural Drawing: Copyright, 1895, 1896, 1899, 1901, by THE COLLIERY ENGINEER COMPANY.
- Estimating and Calculating Quantities: Copyright, 1899, by THE COLLIERY ENGINEER COMPANY.
- Specifications: Copyright, 1898, 1900, by THE COLLIERY ENGINEER COMPANY.
- Plate, Projections—I: Copyright, 1893, 1894, 1896, 1897, 1898, by THE COLLIERY ENGINEER COMPANY.
- Plate, Projections—II: Copyright, 1893, 1894, 1896, 1897, 1898, by THE COLLIERY ENGINEER COMPANY.
- Plate, Conic Sections: Copyright, 1893, 1894, 1896, 1897, 1898, by THE COLLIERY ENGINEER COMPANY.
- Plate, Intersections and Developments: Copyright, 1893, 1894, 1897, 1898, by THE COLLIERY ENGINEER COMPANY.
- Plate, Moldings: Copyright, 1899, by THE COLLIERY ENGINEER COMPANY.
- Plate, Description of Arches: Copyright, 1901, by THE COLLIERY ENGINEER COMPANY.
Entered at Stationers' Hall, London.
- Plate, Full-Size Details: Copyright, 1901, by THE COLLIERY ENGINEER COMPANY. Entered at Stationers' Hall, London.
- Plate, Details: Copyright, 1895, 1896, 1899, by THE COLLIERY ENGINEER COMPANY.
- Plate, Mullion Window: Copyright, 1899, by THE COLLIERY ENGINEER COMPANY.
- Plate, Details of Vestibule: Copyright, 1899, by THE COLLIERY ENGINEER COMPANY.
- Plate, Steel Columns and Connections: Copyright, 1902, by INTERNATIONAL TEXTBOOK COMPANY. Entered at Stationers' Hall, London.
- Plate, First-Story Plan: Copyright, 1895, 1899, by THE COLLIERY ENGINEER COMPANY.
- Plate, Second-Story Plan: Copyright, 1895, 1899, by THE COLLIERY ENGINEER COMPANY.
- Plate, Constructive Details: Copyright, 1895, 1899, by THE COLLIERY ENGINEER COMPANY.
- Plate, Front Elevation: Copyright, 1895, 1899, by THE COLLIERY ENGINEER COMPANY.
- Plate, Sectional Elevation: Copyright, 1895, 1899, by THE COLLIERY ENGINEER COMPANY.
- Carpentry, Key: Copyright, 1898, by THE COLLIERY ENGINEER COMPANY.

All rights reserved.

CONTENTS

CARPENTRY	<i>Section</i>	<i>Page</i>
Province of Carpentry	9	1
Timber	9	2
Classes of Framed Structures	9	31
Joints	9	32
Framing	9	50
Sills, Posts, and Studs	9	50
Floors	9	51
Partitions	9	57
Framing of Roofs	9	65
Balloon-Frame Construction	9	100
Slow-Burning Construction	9	132
JOINERY		
Province of Joinery	10	1
Joints	10	2
General Joinery	10	13
Provision for Expansion and Contraction	10	13
Interior Trim	10	14
Door Making	10	23
Windows	10	31
Splayed Work	10	56
Bending Wood	10	73
Veneering	10	77
Blinds	10	83
Hinges and Their Application	10	90
Interior Fittings	10	93
Exterior Joinery	10	101



STAIR BUILDING	<i>Section</i>	<i>Page</i>
Introduction	11	1
Stairway Construction	11	2
Details of Construction	11	6
Balustrades	11	18
Stairway Design	11	22
Ordinary Forms of Stairways	11	22
Special Forms of Stairways	11	47
Wainscoting	11	54
GEOMETRICAL DRAWING		
Instruments and Materials	13	1
Lettering	13	18
Plates	13	26
The Representation of Objects	13	48
Projections I	13	55
Projections II	13	61
Conic Sections	13	65
Intersections and Developments	13	67
Shade Lines	13	73
ARCHITECTURAL DRAWING		
Scales	14	1
Moldings	14	4
Description of Arches	14	10
Full-Size Details	14	15
Details	14	16
Mullion Window	14	19
Details of Vestibule	14	24
Steel Columns and Connections	14	27
First-Story Plan	14	31
Second-Story Plan	14	45
Constructive Details	14	52
Front Elevation	14	68
Sectional Elevation	14	82
Tracings	14	87
Blueprinting	14	88
Drafting-Room Practice	14	93

CONTENTS

ESTIMATING AND CALCULATING QUANTITIES	<i>Section</i>	<i>Page</i>
Introduction	19	1
Principles of Estimating	19	2
Approximate Estimating	19	3
Estimating Schedule	19	4
Excavation	19	11
Masonry	19	13
Brickwork	19	17
Carpentry	19	19
Roofing	19	27
Plastering	19	35
Joinery	19	37
Hardware	19	42
Heating and Ventilating System	19	42
Plumbing and Gas-Fitting	19	43
Painting and Papering	19	46
Glazing	19	50
Example in Estimating	19	52
SPECIFICATIONS		
Introduction	23	1
Form of Specification	23	4
Heading and General-Condition Clause	23	4
Masonry	23	10
Carpenter Work	23	23
Hardware	23	39
Plumbing	23	43
Gas-Fitting	23	52
Heating	23	53
Painting	23	54
Electrical Work	23	56